

SEMICONDUCTOR LASERS II

Materials and Structures

Edited by Eli Kapon



OPTICS AND PHOTONICS



Semiconductor Lasers I: Materials And Structures

Eli Kapon



Semiconductor Lasers II Materials And Structures:

Semiconductor Lasers II Eli Kapon, 1999-01-14 Judging from the impact it has on our everyday lives the semiconductor laser has emerged as perhaps the most important laser device currently in use This volume presents information on recent advances in materials and structures

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Written by leading experts in the field **Lasers and Optoelectronics** Anil K. Maini, 2013-08-05 With emphasis on the physical and engineering principles this book provides a comprehensive and highly accessible treatment of modern lasers and optoelectronics Divided into four parts it explains laser fundamentals types of lasers laser electronics optoelectronics and laser applications covering each of the topics in their entirety from basic fundamentals to advanced concepts Key features include exploration of technological and application related aspects of lasers and optoelectronics detailing both existing and emerging applications in industry medical diagnostics and therapeutics scientific studies and Defence simple explanation of the concepts and essential information on electronics and circuitry related to laser systems illustration of numerous solved and unsolved problems practical examples chapter summaries self evaluation exercises and a comprehensive list of references for further reading This volume is a valuable design guide for R D engineers and scientists engaged in design and development of lasers and optoelectronics systems and technicians in their operation and maintenance The tutorial approach serves as a useful reference for under graduate and graduate students of lasers and optoelectronics also PhD students in electronics optoelectronics and physics *Handbook of Lasers* Marvin J. Weber, 2019-04-30 Lasers continue to be an amazingly robust field of activity Anyone seeking a photon source is now confronted with an enormous number of possible lasers and laser wavelengths to choose from but no single comprehensive source to help them make that choice The Handbook of Lasers provides an authoritative compilation of lasers their properties and original references in a readily accessible form Organized by lasing media solids liquids and gases each section is subdivided into distinct laser types Each type carries a brief description followed by tables listing the lasing element or medium host lasing transition and wavelength operating properties primary literature citations and for broadband lasers reported tuning ranges The importance and value of the Handbook of Lasers cannot be overstated Serving as both an archive and as an indicator of emerging trends it reflects the state of knowledge and development in the field provides a rapid means of obtaining reference data and offers a pathway to the literature It contains data useful for comparison with predictions and for developing models of processes and may reveal fundamental inconsistencies or conflicts in the data

Handbook of Defence Electronics and Optronics Anil K. Maini, 2018-07-23 Handbook of Defence Electronics and Optronics Anil K Maini Former Director Laser Science and Technology Centre India First complete reference on defence electronics and optronics Fundamentals Technologies and Systems This book provides a complete account of defence electronics and optronics The content is broadly divided into three categories topics specific to defence electronics topics relevant to defence optronics and topics that have both electronics and optronics counterparts The book covers each of the topics in their entirety from fundamentals to advanced concepts military systems in use and related technologies thereby leading the reader logically from the operational basics of military systems to involved technologies and battlefield deployment and applications Key features Covers fundamentals operational aspects involved technologies and application

potential of a large cross section of military systems Discusses emerging technology trends and development and deployment status of next generation military systems wherever applicable in each category of military systems Amply illustrated with approximately 1000 diagrams and photographs and around 30 tables Includes salient features technologies and deployment aspects of hundreds of military systems including military radios ground and surveillance radars laser range finder and target designators night visions devices EW and EO jammers laser guided munitions and military communications equipment and satellites Handbook of Defence Electronics and Optronics is an essential guide for graduate students R D scientists engineers engaged in manufacturing defence equipment and professionals handling the operation and maintenance of these systems in the Armed Forces

Lasers and Electro-optics Christopher C. Davis, 2014-03-20 Covering a broad range of topics in modern optical physics and engineering this textbook is invaluable for undergraduate students studying laser physics optoelectronics photonics applied optics and optical engineering This new edition has been re organized and now covers many new topics such as the optics of stratified media quantum well lasers and modulators free electron lasers diode pumped solid state and gas lasers imaging and non imaging optical systems squeezed light periodic poling in nonlinear media very short pulse lasers and new applications of lasers The textbook gives a detailed introduction to the basic physics and engineering of lasers as well as covering the design and operational principles of a wide range of optical systems and electro optic devices It features full details of important derivations and results and provides many practical examples of the design construction and performance characteristics of different types of lasers and electro optic devices

Reliability
Characterisation of Electrical and Electronic Systems, 2014-12-24 This book takes a holistic approach to reliability engineering for electrical and electronic systems by looking at the failure mechanisms testing methods failure analysis characterisation techniques and prediction models that can be used to increase reliability for a range of devices The text describes the reliability behavior of electrical and electronic systems It takes an empirical scientific approach to reliability engineering to facilitate a greater understanding of operating conditions failure mechanisms and the need for testing for a more realistic characterisation After introducing the fundamentals and background to reliability theory the text moves on to describe the methods of reliability analysis and charactersation across a wide range of applications Takes a holistic approach to reliability engineering Looks at the failure mechanisms testing methods failure analysis characterisation techniques and prediction models that can be used to increase reliability Facilitates a greater understanding of operating conditions failure mechanisms and the need for testing for a more realistic characterisation

Photonic Devices Jia-ming Liu, 2009-06-11 Photonic devices lie at the heart of the communications revolution and have become a large and important part of the electronic engineering field so much so that many colleges now treat this as a subject in its own right With this in mind the author has put together a unique textbook covering every major photonic device and striking a careful balance between theoretical and practical concepts The book assumes a basic knowledge of optics semiconductors and electromagnetic waves

Many of the key background concepts are reviewed in the first chapter. Devices covered include optical fibers, couplers, electro-optic devices, magneto-optic devices, lasers, and photodetectors. Problems are included at the end of each chapter, and a solutions set is available. The book is ideal for senior undergraduate and graduate courses, but being device-driven, it is also an excellent engineers' reference.

II-VI Semiconductor Materials and their Applications Maria C. Tamargo, 2002-04-12

II-VI Semiconductor Materials and Their Applications deals with II-VI compound semiconductors and the status of the two areas of current optoelectronics applications: blue-green emitters and IR detectors. Specifically, the growth, characterization, materials, and device issues for these two applications are described. Emphasis is placed on the wide-bandgap emitters where much progress has occurred recently. The book also presents new directions that have potential future applications in optoelectronics for II-VI materials. In particular, it discusses the status of dilute magnetic semiconductors for magnetic optical and electromagnetic devices, nonlinear optical properties, photorefractive effects, and new materials and physics phenomena such as self-organized low-dimensional structures.

II-VI Semiconductor Materials and Their Applications is a valuable reference book for researchers in the field as well as a textbook for materials science and applied physics courses.

Introduction to Electronic Materials and Devices Sergio M. Rezende, 2022-01-18

This textbook lays out the fundamentals of electronic materials and devices on a level that is accessible to undergraduate engineering students with no prior coursework in electromagnetism and modern physics. The initial chapters present the basic concepts of waves and quantum mechanics, emphasizing the underlying physical concepts behind the properties of materials and the basic principles of device operation. Subsequent chapters focus on the fundamentals of electrons in materials, covering basic physical properties and conduction mechanisms in semiconductors and their use in diodes, transistors, and integrated circuits. The book also deals with a broader range of modern topics, including magnetic spintronics and superconducting materials and devices, optoelectronic and photonic devices, as well as the light-emitting diode, solar cells, and various types of lasers. The last chapter presents a variety of materials with specific novel applications, such as dielectric materials used in electronics and photonics, liquid crystals, and organic conductors used in video displays and superconducting devices for quantum computing. Clearly written, with compelling illustrations and chapter-end problems, Rezende's *Introduction to Electronic Materials and Devices* is the ideal accompaniment to any undergraduate program in electrical and computer engineering. Adjacent students specializing in physics or materials science will also benefit from the timely and extensive discussion of the advanced devices, materials, and applications that round out this engaging and approachable textbook.

Springer Handbook of Lasers and Optics Frank Träger, 2012-05-05

This new edition features numerous updates and additions. Especially 4 new chapters on Fiber Optics, Integrated Optics, Frequency Combs, and Interferometry reflect the changes since the first edition. In addition, major complete updates for the chapters Optical Materials and Their Properties, Optical Detectors, Nanooptics, and Optics far Beyond the Diffraction Limit. Features: Contains over 1000 two-color illustrations. Includes over 120 comprehensive tables.

with properties of optical materials and light sources Emphasizes physical concepts over extensive mathematical derivations Chapters with summaries detailed index Delivers a wealth of up to date references **Packaging of High Power Semiconductor Lasers** Xingsheng Liu,Wei Zhao,Lingling Xiong,Hui Liu,2014-07-14 This book introduces high power semiconductor laser packaging design The challenges of the design and various packaging and testing techniques are detailed by the authors New technologies and current applications are described in detail **Light and Matter** Yehuda B. Band,2006-09-01 Light and Matter Electromagnetism Optics Spectroscopy and Lasers provides comprehensive coverage of the interaction of light and matter and resulting outcomes Covering theory practical consequences and applications this modern text serves to bridge the gap between electromagnetism optics spectroscopy and lasers The book introduces the reader to the nature of light explains key procedures which occur as light travels through matter and delves into the effects and applications exploring spectroscopy lasers nonlinear optics fiber optics quantum optics and light scattering Extensive examples ensure clarity of meaning while the dynamic structure allows sections to be studied independently of one another covers both fundamentals and applications features numerous examples dynamic structure allows sections to be studied independently of one another in depth coverage of modern topics This is an essential text for students of electromagnetism and optics optoelectronics and lasers quantum electronics spectroscopy as well as being an invaluable reference for researches **Wide-band-gap Semiconductors** C.G. Van de Walle,2012-12-02 Wide band gap semiconductors have been a research topic for many decades However it is only in recent years that the promise for technological applications came to be realized simultaneously an upsurge of experimental and theoretical activity in the field has been witnessed Semiconductors with wide band gaps exhibit unique electronic and optical properties Their low intrinsic carrier concentrations and high breakdown voltage allow high temperature and high power applications diamond SiC etc The short wavelength of band to band transitions allows emission in the green blue or even UV region of the spectrum ZnSe GaN etc In addition many of these materials have favorable mechanical and thermal characteristics These proceedings reflect the exciting progress made in this field Successful p type doping of ZnSe has recently led to the fabrication of blue green injection lasers in ZnSe applications of short wavelength light emitting devices range from color displays to optical storage In SiC advances in growth techniques for bulk as well as epitaxial material have made the commercial production of high temperature and high frequency devices possible For GaN refinement of growth procedures and new ways of obtaining doped material have resulted in blue light emitting diodes and opened the road to the development of laser diodes Finally while the quality of artificial diamond is not yet high enough for electronic applications the promise it holds in terms of unique material properties is encouraging intense activity in the field This volume contains contributions from recognized experts presently working on different material systems in the field The papers cover the theoretical experimental and application oriented aspects of this exciting topic

Laser Physics and Technology Pradeep Kumar Gupta,Rajeev Khare,2014-11-06 The book Laser Physics and

Technology addresses fundamentals of laser physics representative laser systems and techniques and some important applications of lasers The present volume is a collection of articles based on some of the lectures delivered at the School on Laser Physics and Technology organized at Raja Ramanna Centre for Advanced Technology during March 12-30 2012 The objective of the School was to provide an in depth knowledge of the important aspects of laser physics and technology to doctoral students and young researchers and motivate them for further work in this area In keeping with this objective the fourteen chapters written by leading Indian experts based on the lectures delivered by them at the School provide along with class room type coverage of the fundamentals of the field a brief review of the current status of the field The book will be useful for doctoral students and young scientists who are embarking on a research in this area as well as to professionals who would be interested in knowing the current state of the field particularly in Indian context *Scientific and Technical Aerospace Reports*, 1995

Laser Diode Microsystems Hans Zappe, 2013-03-14 Laser Diode Microsystems provides the reader with the basic knowledge and understanding required for using semiconductor laser diodes in optical microsystems and micro optical electromechanic systems This tutorial addresses the fundamentals of semiconductor laser operation and design coupled with an overview of the types of laser diodes suitable for use in Microsystems along with their distinguishing characteristics Emphasis is placed on laser diode characterization and measurement as well as the assembly techniques and optical accessories required for incorporation of semiconductor lasers into complex microsystems Equipped with typical results and calculation examples this hand on text helps readers to develop a feel for how to choose a laser diode characterize it and incorporate it into a microsystem *Semiconductor Lasers I* Eli Kapon, 1999-01-12 This book covers the device physics of semiconductor lasers in five chapters written by recognized experts in this field The volume begins by introducing the basic mechanisms of optical gain in semiconductors and the role of quantum confinement in modern quantum well diode lasers Subsequent chapters treat the effects of built in strain one of the important recent advances in the technology of these lasers and the physical mechanisms underlying the dynamics and high speed modulation of these devices The book concludes with chapters addressing the control of photon states in squeezed light and microcavity structures and electron states in low dimensional quantum wire and quantum dot lasers The book offers useful information for both readers unfamiliar with semiconductor lasers through the introductory parts of each chapter as well as a state of the art discussion of some of the most advanced semiconductor laser structures intended for readers engaged in research in this field This book may also serve as an introduction for the companion volume *Semiconductor Lasers II Materials and Structures* which presents further details on the different material systems and laser structures used for achieving specific diode laser performance features Introduces the reader to the basics of semiconductor lasers Covers the fundamentals of lasing in semiconductors including quantum confined and microcavity structures Beneficial to readers interested in the more general aspects of semiconductor physics and optoelectronic devices such as quantum confined heterostructures and integrated

optics Each chapter contains a thorough introduction to the topic geared toward the non expert followed by an in depth discussion of current technology and future trends Useful for professionals engaged in research and development Contains numerous schematic and data containing illustrations

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